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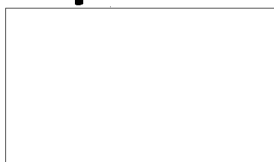


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Imagery analysis report

**New Probable Command and Control
Communications System for SS-20
Mobile Missile System, USSR (S)**

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NEW PROBABLE COMMAND AND CONTROL COMMUNICATIONS SYSTEM FOR SS-20 MOBILE MISSILE SYSTEM, USSR (S)

1. (S/D) A probable command and control communications system has been identified in the support areas of the 11 operational SS-20 bases in the Chita, Omsk, Orenburg, and Vladimir Strategic Rocket Forces Armies in the USSR (Figure 1).
2. (S/D) The system consists of a control building, a roof-mounted set of probable antenna positions, and two 28-meter-high* lattice towers. The control building with the roof-mounted probable antenna positions and the lattice towers are connected by cable to the three-bay garages. These garages are, in turn, cable connected to the single-bay garages which house the SS-20 transporter/erector/launchers.
3. (S/D) The control buildings, which are in the support areas for the mobile IRBM bases, are all two-story administration-type buildings. Seven of the buildings that were modified existed prior to SS-20 conversion. The remaining four control buildings were newly constructed. The newly constructed buildings are 34 by 14 meters, while the older buildings are 42 by 14 meters. Two of the buildings have hip roofs; all the others have flat roofs (Chart 1).

*Previously identified as 30-meter lattice towers.

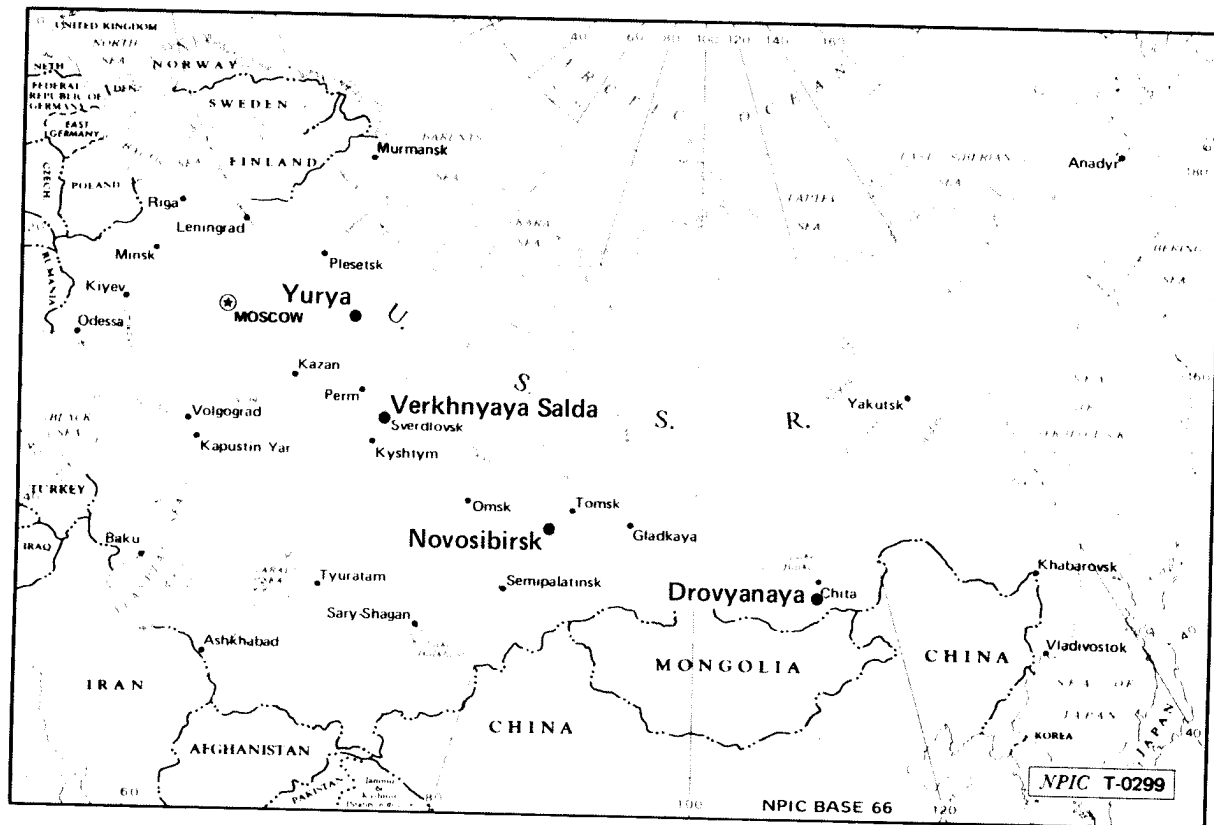


FIGURE 1. LOCATIONS OF NEW PROBABLE COMMAND AND CONTROL COMMUNICATIONS SYSTEM, USSR

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4. (S/D) Two general positioning patterns have been observed on the control buildings. One configuration consists of eight probable antenna positions mounted along the centerline of the control buildings (Figure 2 and items 1 through 5 and 8 through 11, Chart 1). The other configuration consists of two sets of three probable antenna positions mounted along the centerline of the control buildings (Figures 3 and 4 and Chart 1, items 6 and 7). In both configurations, there are two distinct sets of antenna positions separated by varying distances. These antenna positions are connected by cable to central external feedpoints at eight of the 11 mobile IRBM bases. Cables for the three remaining facilities may pass under the roof structure (items 3, 5, and 7).

5. (S/D) The most common positioning pattern seen on the control buildings is illustrated by Novosibirsk Mobile IRBM Base 1 (Figure 2). Here, as at eight other mobile IRBM bases, eight probable antenna positions are mounted along the centerline of the control building in two distinct sets (Chart 1). The first set consists of six probable antenna positions, while the second set consists of two positions. At all the bases with this type of position pattern, the spacing between the six probable antenna positions which form one set is 4 meters. The spacing between the two remaining probable antenna positions and the two sets varies (Chart 1).

6. (S/D) The two remaining control buildings both have two sets of three roof-mounted probable antenna positions (items 6 and 7, Chart 1; Figures 3 and 4). The distances between the individual probable antenna positions and the two sets were not consistent.

7. (S/D) The relationship between the date the probable command and control communications system was complete and the date the mobile missile base became operational is provided on Table 1. At ten of the 11 bases, the control building was complete, and the lattice towers were erected prior to the base becoming operational.

8. (S/D) To date, this probable command and control communications system with its control building, lattice towers, and roof-mounted antenna positions has only been seen at operational SS-20 bases in the Chita, Omsk, Orenburg, and Vladimir SRF Armies. It has not been observed in the Smolensk or Vinnitsa SRF Armies.

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted]

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